

What is claimed is:

1. A color cathode ray tube, comprising: a panel having a substantially flat outer surface and an inner surface having a curvature; a funnel coupled to the panel; a deflection yoke installed at an outer surface of the funnel; and a reinforcing band installed at a skirt portion of the panel,

wherein the panel and the funnel satisfy the following condition, $U/U' \geq 2.5$,

when a diagonal size of an effective surface of the panel is U , and a tube axis directional distance from an outer surface center of the panel to a boundary portion (TOR) between a body part and a yoke part of the funnel is U' .

2. The CRT of claim 1, wherein a maximum deflection angle of a electron beam is about $100^\circ \sim 140^\circ$.

3. The CRT of claim 1, wherein the panel and funnel satisfy the following condition, $U/L \geq 2.5$,

when a tube axis directional distance from the outer surface center of the panel to a deflection reference line (RL) of the funnel is L .

4. The CRT of claim 1, wherein the panel and funnel satisfy the following condition, $L/OL \leq 0.55$,

when a tube axis directional distance from the outer surface center of the panel to a deflection reference line (RL) of the funnel is L and a tube axis directional distance from the outer surface center of the panel to an end portion of

the funnel is OL.

5. The CRT of claim 1, wherein the panel satisfies the following condition, $6.5 \leq U/OAH \leq 12.5$,

5 when a tube axis directional height of the panel is OAH.

6. The CRT of claim 1, wherein the reinforcing band satisfies the following condition, $h \geq 7\text{mm}$,

10 when a tube axis directional distance from the outer surface center of the panel to a front edge portion of the reinforcing band is h.

7. The CRT of claim 6, wherein the reinforcing band satisfies the following condition, $10.5\text{mm} \leq h \leq 20\text{mm}$.

15 8. The CRT of claim 6, wherein the panel and reinforcing band satisfy the following condition, $0.55 \leq W/OAH \leq 0.8$,

when a width of the reinforcing band is W and a tube axis directional height of the panel is OAH.

20 9. The CRT of claim 6, wherein the panel and reinforcing band satisfy the following condition, $0.35 \leq BP/OAH \leq 0.65$.

when a tube axis directional distance from a connecting portion of the panel and the funnel to the reinforcing band center is BP and a tube axis directional height of the panel is OAH.

25

10. The CRT of claim 1, wherein a vertical section surface of a yoke part of the funnel is about non-circular shape.

11. A color cathode ray tube, comprising: a panel having an substantially flat outer surface and an inner surface having a curvature; a funnel coupled to the panel; a deflection yoke installed at an outer surface of the funnel; and a reinforcing band installed at a skirt portion of the panel,

wherein the panel and the funnel satisfy the following condition, $U/L \geq 2.0$, when a diagonal size of an effective surface of the panel is U and a tube axis directional distance from the outer surface center of the panel to a deflection reference line (RL) of the funnel is L.

12. The CRT of claim 11, wherein the panel and the funnel satisfy the following condition, $2.4 \leq U/L \leq 5.5$.

15

13. The CRT of claim 11, wherein the panel and the funnel satisfy the following condition, $L/OL \leq 0.55$,

when a tube axis directional distance from the outer surface center of the panel to an end portion of the funnel is OL.

20

14. The CRT of claim 11, wherein the panel and the funnel satisfy the following condition, $6.5 \leq U/OAH \leq 12.5$,

when a tube axis directional height of the panel is OAH.

15. The CRT of claim 11, wherein the reinforcing band satisfies the

25

following condition, $h \geq 7\text{mm}$,

when a tube axis directional distance from the outer surface center of the panel to a front edge portion of the reinforcing band is h .

5 16. The CRT of claim 15, wherein the reinforcing band satisfies the following condition, $10.5\text{mm} \leq h \leq 20\text{mm}$.

17. The CRT of claim 15, wherein the panel and reinforcing band satisfy the following condition, $0.55 \leq W/OAH \leq 0.8$,

10 when a width of the reinforcing band is W and a tube axis directional height of the panel is OAH .

18. The CRT of claim 15, wherein the panel and reinforcing band satisfy the following condition, $0.35 \leq BP/OAH \leq 0.65$,

15 when a tube axis directional distance from a connecting portion of the panel and the funnel to the reinforcing band center is BP and a tube axis directional height of the panel is OAH .

19. The CRT of claim 11, wherein a vertical section surface of the
20 yoke part of the funnel is about rectangular shape.

20. The CRT of claim 11, wherein a maximum deflection angle of electron beam is about $100^\circ \sim 140^\circ$.